AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A computer-implemented method for determining network security threat level, comprising the steps of:

receiving event data in response to identified network event detected by a sensor; based upon the event data, perform the following step:

determining a source threat value, the source threat value based upon a source threat weight for a source IP address and a first range of IP network addresses of which the source IP address is a member;

determining a destination vulnerability value, the destination vulnerability value based upon the network event in conjunction with a destination IP address, a destination threat weight for the destination IP address, and a threat level value associated with a second range of network IP address of which the destination IP address is a member;

determining an event validity value based upon the source IP address and an event type;

determining event severity value based upon the event type;

calculating an event threat level value based upon the source threat value, the destination vulnerability value, the event validity value, and the event severity value;

calculating a host threat level value based upon a summation of event threat level values for a host over a first time period associated with a number of correlated events for the host in the first time period; and

calculating a differential threat level by associating the host threat level value with a second host threat level value based upon a second time period wherein the second time period exceeds the first time period.

- 2. (Original) The method of claim 1, further comprising the steps of: comparing the event threat level value to an event alert value; and generating an alarm when the event threat level value exceeds the event alert value.
 - 3. (Original) The method of claim 1, further comprising the steps of: comparing the compound host threat level value to a host alert value; and generating an alarm when the host threat level value exceeds the host alert value.
- 4. (Original) The method of claim 1, further comprising the steps of:

 comparing the differential threat level value to a differential alert value; and
 generating an alarm when the differential threat level value exceeds the

 differential alert value.
- 5. (Currently Amended) A method for determining network security threat level, comprising-the steps of:

receiving event data in response to an identified network event detected by a sensor; and

based upon the event data; determining a host threat level based upon a threat weighting assigned to the host associated with a threat weighting assigned to a host network block of which the host is a member.

- 6. (Original) The method of claim 5 wherein the host is a source device.
- 7. (Original) The method of claim 5 wherein the host is a destination device.

8. (Currently Amended) A method for determining network security threat level, comprising the steps of:

receiving event data in response to an identified network event detected by a sensor;

determining an event type based upon the event data; and

determining a source threat based upon a source threat weighting assigned to the source for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member.

9. (Currently Amended) A method for determining network security threat level, comprising the steps of:

receiving event data in response to an identified network event detected by a sensor;

determining an event type based upon the event data; and

determining a destination threat value based upon a destination threat weighting assigned to the destination for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member; and

determining a destination vulnerability by associating the destination threat value with a destination vulnerability value based upon a vulnerability of a destination host for the event type.

10. (Currently Amended) A method for determining network security threat level, comprising the steps of:

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receiving event data in response to an identified network event detected by a sensor;

determining an event type based upon the event data; and

determining a source threat based upon a source threat weighting assigned to a source for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member[.];

determining a destination threat value based upon a destination threat weighting assigned to the destination for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member;

determining a destination vulnerability by associating the destination threat value with a destination vulnerability value based upon a vulnerability of a destination host for the event type;

determining an event validity based upon the source and the event type; and determining an event severity base upon the event type; and calculating the network security threat based upon the source threat, the destination vulnerability, the event validity, and the event severity.

11. (Currently Amended) A method for determining network security threat level, comprising the steps of:

receiving event data in response to an identified network event detected by a sensor;

determining an event type based upon the event data; and

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determining a source threat based upon a source threat weighting assigned to a source for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member[.]:

determining a destination threat value based upon a destination threat weighting assigned to the destination for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member;

determining a destination vulnerability by associating the destination threat value with a destination vulnerability value based upon a vulnerability of a. destination host for the event type;

determining an event validity based upon the source and the event type; and determining an event severity base upon the event type;

calculating an event threat based upon the source threat, the destination vulnerability, the event validity, and the event severity; <u>and</u>

calculating a compound host threat by associating a plurality of event threats over a time period with a number of correlated events in the time period.

12. (Currently Amended) A method for determining network security threat level, comprising the steps of:

receiving event data in response to an identified network event detected by a sensor:

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determining an event type based upon the event data; and

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determining a source threat based upon a source threat weighting assigned to a source for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member[.];

determining a destination threat value based upon a destination threat weighting assigned to the destination for the event type associated with a network block threat weighting for the event type assigned to a host network block of which the host is a member;

determining a destination vulnerability by associating the destination threat value with a destination vulnerability value based upon a vulnerability of a destination host for the event type;

determining an event validity based upon the source and the event type; and determining an event severity base upon the event type;

determining an event threat based upon the source threat, the destination vulnerability, the event validity, and the event severity;

determining a first compound host threat value by associating a first plurality of event threats over a first time period with a first frequency number of correlated events in the first time period[.];

determining a second compound host threat value by associating a second plurality of event threats over a second time period greater than the first time period with a second frequency number of correlated events in the second time period; and

determining a differential threat level by associating the first compound host threat value with the second host threat value.

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13. (Currently Amended) A method for determining network security threat level, comprising the steps of:

receiving event data in response to an identified network event detected by a sensor;

determining an event type based upon the event data;

based upon the event data, perform the following steps:

determining a first host frequency threat level value by summing event threat level values for a host over a first time period dividing by the number of correlated events for the host in the first time period;

determining a second host frequency threat level value by summing event threat level values for the host over a second time period greater than the first time period and associated with the number of correlated events for the host in the second time period; and

determining a differential threat level numerator by multiplication of the first host frequency threat level value by the second time period;

determining a differential threat level denominator by multiplying the second host frequency value by the first time period, and

calculating a differential threat level by <u>diving-dividing</u> the differential threat level numerator by the differential threat level denominator.